

US Army Engineering & Support Center, Huntsville

OE Innovative Technology

18 Dec 01

Innovative Technology Manager 256-896-1629



Overview of Program

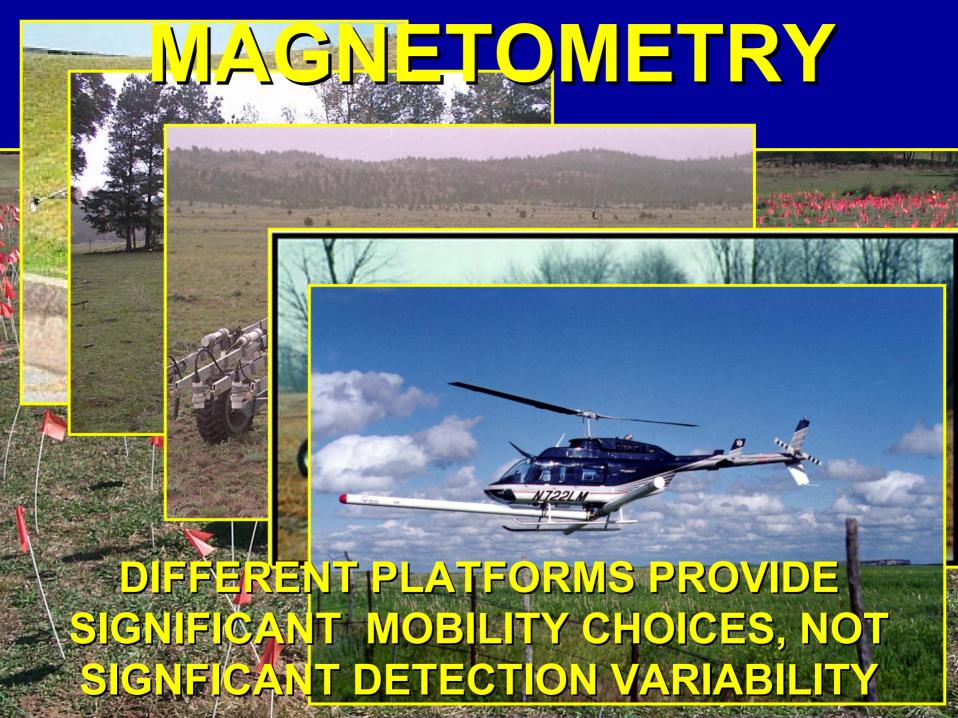
 Funded by mainly by HQUSACE (FUDS/BRAC) and ESTCP for OE technology demonstration and transition

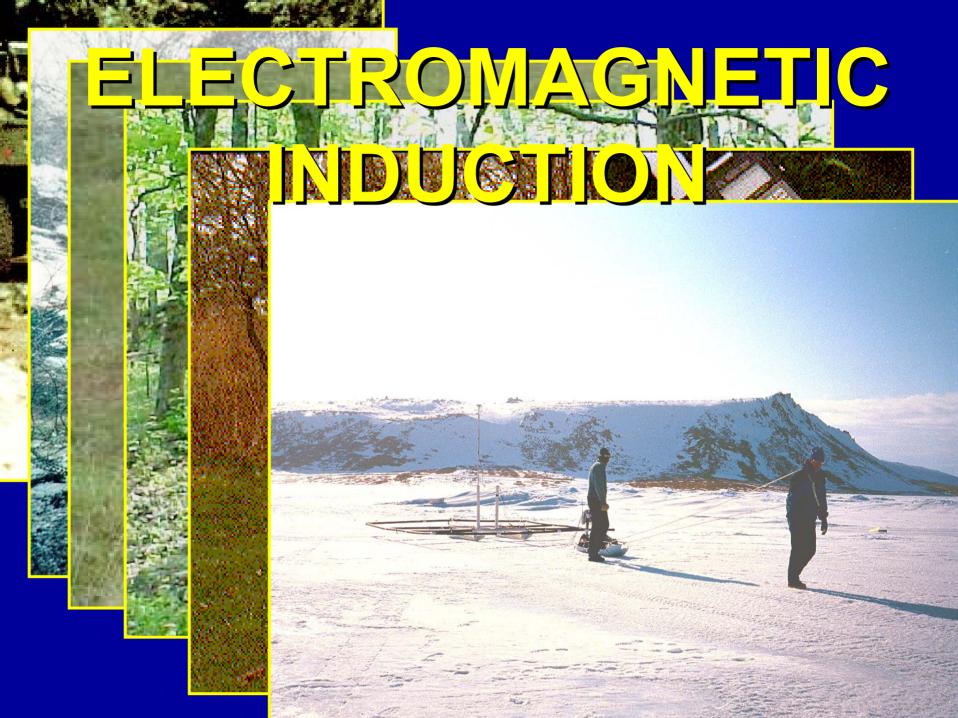
Our goal is to transition effective OE technologies to active projects



Army UXO R&D Focus

- Site Characterization
- Geophysical Discrimination Processes
- Sensor Design & Enhancement
- Hand-Held UXO Detector
- Data Acquisition, Analysis & Visualization
- Navigation & Positioning







Airborne Geophysics

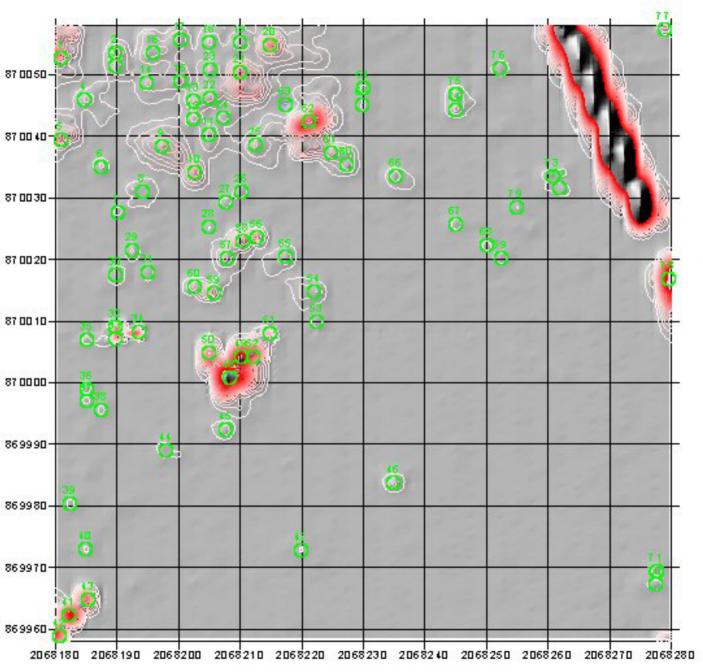




Multi-Sensor Arrays



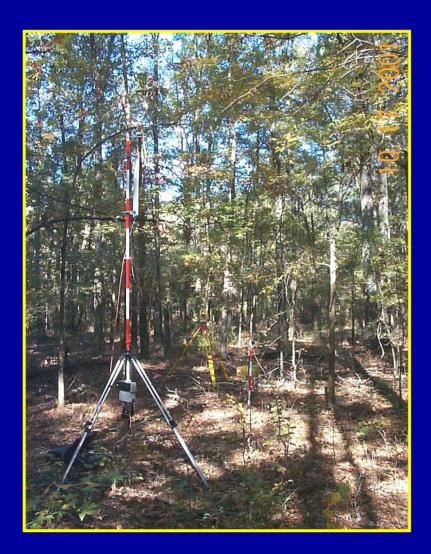
· Camp Butner, N.C. - Parsons Engineering Science - Grid A1G113.xyz



EM61 MKII CH2 Data - Processed 8/02/01 by DWP



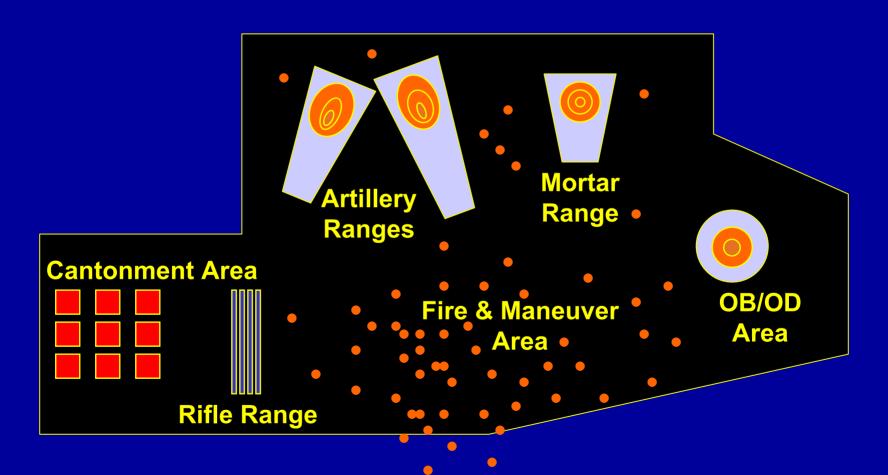
Precision Navigation

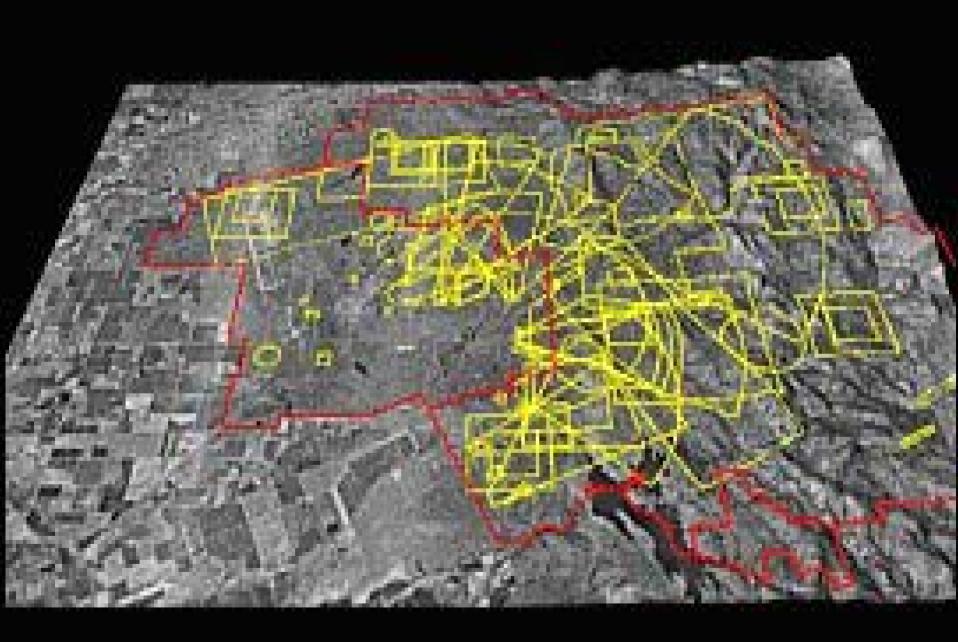




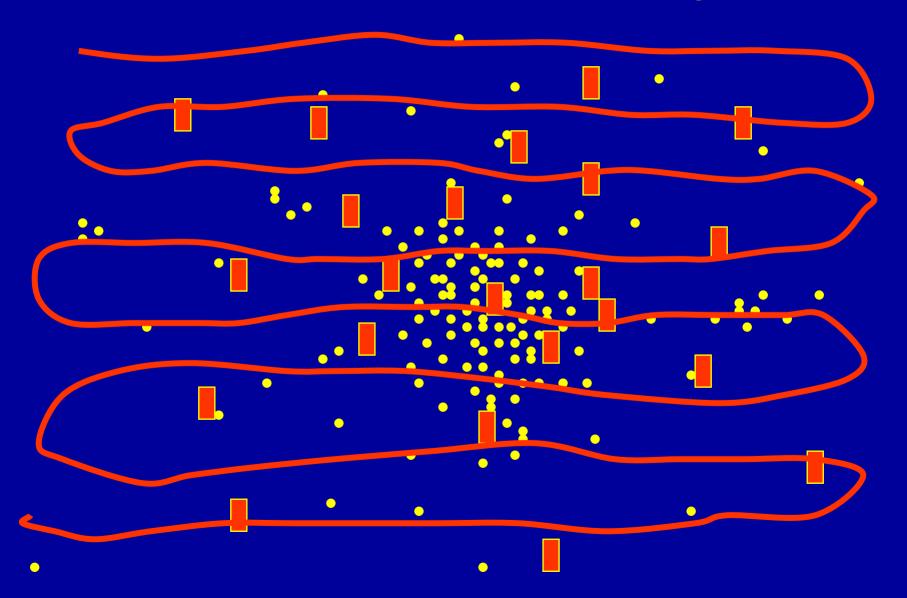


Statistical Characterization





Where's the Boundary?





Munitions Fill Analysis





Advanced Non-Destructive Evaluation (ANDE) System



Remote Access & Destruction

US Army Corps of Engineers

GATOR LASER



Engineer Research and Development Center

Characterization

of Explosives

Military Firing

Residues at

Ranges



Engineer Research and Development Center

July 2001

Characterization of Explosives Contamination at Military Firing Ranges

Thomas F. Jenkins, Judith C. Pennington, Thomas A. Ranney, Thomas E. Berry Jr., Paul H. Miyares, Marianne E. Walsh, Alan D. Hewitt, Nancy M. Perron, Louise V. Parker, Charlotte A. Haves, and Eric G. Wahlgren





Mobile Blast Chambers



Demil International Blast Chamber

Chemical munition for destruction





Mechanized Removal Equipment





CEHNC issued final report, "Mechanized UXO Removal Equipment" dtd Aug. 2001, that evaluates currently available equipment



QUESTIONS?